ACADEMIC YEAR 2021-2022 / ANNUAL PROGRAM REVIEW (APR)

Statistics Certificate

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Template:

Student Learning Assessment Report (add one "plan item" for each major, degree, and/or certificate offered by dept)

Name of degree/major or credential (example: Psychology BA/BS):

Statistics Certificate

Assessment Cycle State Date:

3/1/2021

Assessment Cycle End Date:

7/1/2022

Progress:

Section Completed, Waiting for Feedback

Providing Department:

Math & Statistical Sci

Responsible Users:

Assessment Report Contact:

Hirotachi Abo

Program Changes in Past Year:

None

Learning Outcomes are Communicated to All Students in Program (check box if true):

true

Learning Outcomes are Communicated to All Faculty (check box if true):

true

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

Statistical methods: The student can clearly explain the results of the statistical analysis and if the statistical method(s) are valid.

Direct measure: Score on a Stat 431 course project. The benchmark is that at least 80% of students in Stat 431 have a score 2 or better. The stretch benchmark is that at least 100% of students in Stat 431 have a score 2 or better.

- Thirty four of thirty eight students (89.5%) had an appropriate score.

Indirect measure: Student self-assessment in exit interviews. The benchmark is that at least 50% of students expressed confidence in attaining the learning outcome in statistical methods. The stretch benchmark is that at least 80% of students expressed confidence in attaining the learning outcome in statistical methods.

- No students responded to the exit survey.

2

Assess assumptions

The student can diagnose whether the assumptions of the chosen statistical method are valid.

Academic Year 2020-2021: **Statistics (GR Cert)**

Term: **Overview**

Exceeded	0%	0
Met	89.47%	34

Partially Met		0%	0
Not Met		10.53%	4

Summary of Student Learning:

The ordinary benchmark was met for the direct measure. However, the stretched benchmark was not met for the direct measure. We were not able to collect any data for the indirect measure. This result is similar to that in the previous year.

Attached Files
There are no attachments.

Summary of Faculty Discussion:

- Conducting exit interviews with them is challenging because students in this program are able to declare degree complete status whenever they finish their coursework.
- It is a challenge to assess the learning outcomes of the statistics certificate because the students in this program take different courses. Currently, the score on Stat 431 is used as a direct measure for the learning outcome in statistical methods, although this course is a prerequisite for this certificate. While Stat 431 is still considered suitable for a direct measure because the majority of students in this program take Stat 431, it was suggested that further discussions will be necessary to refine the learning outcome review for this program.

Attached Files
There are no attachments.

Summary of Changes/Improvements Being Considered:

- We need to establish effective methods to reach out to students in this program for exit interviews.

Attached Files
There are no attachments.

Inter-rater Reliability:

The assessment committee will review and implement changes to procedure for assessment processes.

Closing the Loop:

The department plans to work with the registerer office to monitor when students in this program complete the degree to increase participation in exit interviews.

Attached Files
There are no attachments.

Quality Assessment Feedback:

Attached Files

[QAR Feedback Report COS Statistics Grad Cert 2021-22.pdf](#)

Related Items

No connections made

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